

Name: _____

Horticulture

Directions:

Evaluate the student by checking the appropriate number or letter to indicate the degree of competency. The rating for each task should reflect **employability readiness** rather than the grades given in class.

Rating Scale:

- 3 Mastered** – can work independently with no supervision
- 2 Requires Supervision** – can perform job completely with limited supervision
- 1 Not Mastered** – requires instruction and close supervision
- N No Exposure** – no experience or knowledge in this area

NOTE: The code in parentheses is the competency identification number used in computerized management systems.

3	2	1	N	A. Plant and Plant Product Identification	Notes:
				1. Identify nursery plants (A001)	
				2. Identify floriculture crops (A002)	
				3. Identify fruits and nuts (A003)	
				4. Identify turf grasses (A004)	
				5. Identify vegetables (A005)	
				Other:	

3	2	1	N	B. Maintaining Established Plants	Notes:
				1. Maintain lawns and turf (B001)	
				2. Maintain orchards and vineyards (B002)	
				3. Maintain ornamentals (B003)	
				4. Maintain small fruits and vegetables (B004)	
				5. Maintain floriculture crops (B005)	
				6. Maintain interiorscaping plants (B006)	
				Other:	

3	2	1	N	C. Landscaping and Interiorscaping	Notes:
				1. Develop design (C001)	
				2. Develop public area (C002)	
				3. Develop service area (C003)	
				4. Develop private and family area (C004)	
				5. Choose corner plantings (C005)	
				6. Choose entrance plantings (C006)	
				7. Choose foundation plantings (C007)	

				8. Choose ground cover plantings (C008)	
				9. Determine areas appropriate for planting (C009)	
				10. Determine planting patterns (C010)	
				11. Interpret landscape/interiorscape plans (C011)	
				Other:	

3	2	1	N	D. Floral Design	Notes:
				1. Use correct floral design terminology (D001)	
				2. Identify common tools and mechanics used in arranging flowers (D002)	
				3. Identify the types of flowers that can be used in floral design (D003)	
				4. Identify the basic principles of floral design (D004)	
				5. Identify the basic floral design shapes (D005)	
				6. Design a fresh floral arrangement (D006)	
				7. Design a dried and/or silk floral arrangement (D007)	
				8. Perform basic wiring techniques (D008)	
				9. Construct bows using basic ribbon widths (D009)	
				10. Construct different types of corsages (D010)	
				11. Construct different types of boutonnieres (D011)	
				12. Construct a floral design using Christmas greens (D012)	
				13. Construct wedding floral designs (D013)	
				14. Construct funeral floral designs (D014)	
				15. Prepare, design, and plant a dish garden (D015)	
				16. Prepare, design, and plant a terrarium (D016)	
				17. Package florist flowers/arrangements for delivery (D017)	
				Other:	

3	2	1	N	E. Preparation of Soils and Planting Media	Notes:
				1. Take soil samples (E001)	
				2. Interpret data of soil sample analysis (E002)	
				3. Prepare planting media (soilless mix) (E003)	
				4. Sterilize (pasteurize) soils/soilless mixes (E004)	
				5. Fertilize media/soil (E005)	

				6. Plan/construct drainage system (E006)	
				7. Apply lime and nutrients (organic and inorganic) (E007)	
				8. Plan and prepare fields (E008)	
				9. Plan and prepare beds (E009)	
				Other:	

3	2	1	N	F. Preparation and Planting of Plants	Notes:
				1. Maintain dormant plants (F001)	
				2. Prepare/plant seeds (F002)	
				3. Prepare/plant bulbs, corms, tubers, rhizomes, and roots (F003)	
				4. Prepare/transplant seedlings, cuttings, and stolens (F004)	
				5. Prepare/transplant large plants (F005)	
				6. Apply correct mulch (F006)	
				Other:	

3	2	1	N	G. Propagation of Plants	Notes:
				1. Label plants (G001)	
				2. Set time clocks for automatic mist propagation system (G002)	
				3. Propagate plants by taking cuttings (G003)	
				4. Propagate plants through layerage techniques (G004)	
				5. Propagate plants by division (G005)	
				6. Propagate plants by budding (G006)	
				7. Propagate plants by grafting (G007)	
				8. Remove propagated plants (G008)	
				9. Handle propagated plants for shipping or receiving (G009)	
				Other:	

3	2	1	N	H. Cultural and Environmental Control Practices	Notes:
				1. Pinch flowering plants (H001)	
				2. Disbud flowering plants (H002)	
				3. Prune plants (H003)	
				4. Apply growth regulating chemicals (H004)	
				5. Force bulbs (control temperature, moisture, and light) (H005)	

				6. Apply shade material (H006)	
				7. Install black cloth to regulate photoperiod (H007)	
				8. Provide the required light intensity and length for photoperiod control (H008)	
				9. Adjust or control closed environment temperature (H009)	
				10. Provide for low temperature control in fields (H010)	
				11. Provide for high temperature control in fields (H011)	
				12. Cultivate soils (H012)	
				13. Aerate compacted soils (H013)	
				14. Provide plant support (H014)	
				15. Apply granular fertilizer (H015)	
				16. Apply liquid fertilizer (H016)	
				Other:	

3	2	1	N	I. Irrigation Practices	Notes:
				1. Calculate amount/source of water needed (I001)	
				2. Set time control valves (I002)	
				3. Hand water plants (I003)	
				4. Regulate furrow irrigation (I004)	
				5. Regulate overhead irrigation (I005)	
				6. Regulate trickle irrigation (I006)	
				Other:	

3	2	1	N	J. Plant Pest and Disease Control	Notes:
				1. Identify plant disease (J001)	
				2. Identify insect damage (J002)	
				3. Identify chemical and environmental damage (J003)	
				4. Identify mechanical damage (J004)	
				5. Identify weeds (J005)	
				6. Determine correct control procedures (J006)	
				7. Safely mix chemicals (J007)	
				8. Safely apply chemicals (J008)	
				9. Provide biological controls (J009)	

				10. Remove diseased plants (J010)	
				11. Remove weeds manually from crops (J011)	
				12. Remove weeds with mechanical aids (J012)	
				13. Set out poisoned bait to eradicate rodents (J013)	
				14. Safely store chemicals and equipment (J014)	
				Other:	

3	2	1	N	K. Harvesting and Handling of Crops	Notes:
				1. Harvest plants or plant products at proper stage (K001)	
				2. Count plants or plant products (K002)	
				3. Clean and size harvested plants or plant products (K003)	
				4. Load plants for hauling (K004)	
				5. Dry harvested crops which require curing (K005)	
				6. Treat harvested crops for reduction of spoilage (K006)	
				Other:	

3	2	1	N	L. Packaging, Storage, and Shipment	Notes:
				1. Grade for size and quality plants or plant products (L001)	
				2. Place plants or products in proper storage (L002)	
				3. Prepare invoices and shipping labels (L003)	
				4. Package orders for shipment (L004)	
				5. Assemble shipping cartoons (L005)	
				6. Inventory plants or plant products (L006)	
				7. Observe federal and state shipping standards (L007)	
				Other:	

3	2	1	N	M. Miscellaneous Maintenance and Repairs	Notes:
				1. Maintain gasoline engines (M001)	
				2. Maintain diesel engines (M002)	
				3. Maintain electric motors (M003)	
				4. Maintain large implements (M004)	
				5. Maintain small implements (M005)	
				6. Correctly store implements (M006)	

				7. Sharpen hand tools (M007)	
				8. Repair growing structures (M008)	
				9. Locate and report any malfunctions of liquid injection systems (M009)	
				10. Repair and maintain irrigation system (M010)	
				11. Repair and maintain spray equipment (M011)	
				Other:	

3	2	1	N	Leadership & Personal Development for Advanced Students (Leadership Duty C)	Notes:
				1. Develop a resume and complete a job application (C001)	
				2. Develop a plan for finding a job (C002)	
				3. Describe how to apply and interview for a job (C003)	
				4. Describe the characteristics needed to develop desirable personal and social skills (C004)	
				5. Describe the importance and process of developing better human relationships (C005)	
				Other:	

3	2	1	N	Using the Missouri Farm Business Record Book (SAE Duty D)	Notes:
				1. Describe the two types of accounting methods (D001)	
				2. Complete the forms needed to open the Missouri Farm Business Record Book (D002)	
				3. Develop a projected cash flow (D003)	
				4. Record receipts and expenditures in the Missouri Farm Business Record Book (D004)	
				5. Complete additional records in the Missouri Farm Business Record Book (D005)	
				6. Complete the forms necessary to summarize the Missouri Farm Business Record Book (D006)	
				7. Analyze the farm business using the Missouri Farm Business Record Book (D007)	
				Other:	